

FOLIO

THE UNIVERSITY OF ALBERTA STAFF BULLETIN

EDMONTON, ALBERTA

NOVEMBER 20, 1975

PRESIDENT'S ADDRESS TO CONVOCATION

The following address was presented by University President H.E. Gunning at Fall Convocation, which was held on November 15. Since assuming the Presidency last year, I have had the privilege of representing our great University on many occasions. This has proven to be a most rewarding aspect of my work since it has brought me in contact with so many fine people who have shown a genuine interest in fostering the development of our institution, and promoting its academic objectives.

As a result of these constructive interactions with members of the many publics that we are called upon to serve, it has come home to me very clearly that it is our research activities that represent the least understood of the many functions that we perform. To me this is disturbing indeed, since it is the dedication of its staff to the preservation and advancement of knowledge, that is to scholarly research, which distinguishes a true university from other post-secondary institutions.

While a university is obviously an intricate organization, it is very easy to recognize that the fundamental structural units are its academic disciplines. The research scholars in these disciplines are in constant communication with their counterparts in other universities and advanced research institutes throughout the world. As a result the University of Alberta becomes part of a global communication system through which flows the latest developments in all its fundamental branches of knowledge. The membership fee in this vital knowledge-gathering organization is the many contributions which we make to the body of new knowledge through our research programs.

The precise nature of this international system of research communication can perhaps best be grasped through specific examples. To that end let us suppose that I am a nuclear physicist at this University. To carry out my research activities I may work partly at our Nuclear Research Centre, and in addition I may have other research workers carrying out projects at the Tri-University Meson Facility in Vancouver. In order to be effective, it is imperative that I know what other high-energy physics laboratories are investigating throughout the world, especially where their fields of investigation overlap with mine. Otherwise I may simply be duplicating what has already

been done; and in research only original work has any significance.

To keep abreast of my field I must spend a great deal of time becoming thoroughly familiar with the thousands of research papers published each year in high energy physics. And of course if I were not active in research, I could not even understand the abstract concepts developed in these forefront publications. However in rapidly developing research fields, such as high-energy physics, to be thoroughly familiar with the published research literature is simply not adequate, since such publications are normally some two years out-of-date. And in these very active areas of science, in which thousands of highly talented research workers are competing for priority of discovery in first rate laboratories all over the world, to know what happened two years ago is almost to know ancient history.

The fact is, to be a productive research worker in high-energy physics requires that I have a completely current knowledge of what problems other research laboratories are engaged in. To accomplish this end I must attend international meetings in my field; I must visit other research laboratories; and in general I must interact constructively with fellow scientists in my specialty on a world-wide basis.

Nuclear physics is an example of a very active research field where the competition is extremely keen. In fact when major discoveries have been made, such as, for example, the demonstration of the first nuclear chain reaction, the priority of discovery was a matter of a few days. And in each scientific journal careful records are kept of the date of receiving each manuscript, so that the original discoverer may be unequivocally determined.

For a graduate student doing his doctoral thesis in a highly competitive area, such as I have described, it is critical that his research supervisor have this intimate knowledge of the latest research findings in his field. Otherwise the student may complete his research problem, only to find to his dismay that his results are already in print. This I can assure you has happened many times.

Nuclear physics is but one branch of physics, and this major discipline in turn is but one of the disciplines within the broad area of the physical sciences. And of course the physical sciences are only a part of the group of

departments which form one Faculty of this University. One can therefore gain some appreciation of the vastness of the information exchange systems which are involved in the research programs of a very active research-centred University such as ours.

Research demands a great deal of those who engaged in it. The successful are very highly creative individuals with a rare ability to inspire others to carry on the tradition of discovery. Research scholars have opened both the past and the future to our understanding.

Let me cite an example of how research scholars can reconstruct the past in order that we can fully appreciate the wisdom of vanished civilizations. After the systematic destruction by vandal hordes of the vast Roman Empire, the majority of the records of accomplishment of that great civilization was reduced to rubble. The rubble included inscriptions on the bases of statues, inscriptions on buildings, on medals, coins, and other hard and enduring objects. Some of these pieces, often in very damaged condition, have been unearthed by archeologists and studied by specialists in Latin epigraphy in order to reconstruct knowledge which otherwise would have been lost. One of the most important problems to be solved about the Roman Empire is how Rome managed to keep such a far-flung empire together. In our University we have a very distinguished scholar in this field and he is working with other specialists in Latin epigraphy to determine precisely the methods used by Roman emperors to maintain their imperial cohesiveness. What has emerged from this extremely painstaking work, involving the assembling and deciphering of many such inscriptions, is that the Romans fostered a type of religious homage to their rulers, in which the current ruler took on an almost god-like status. This ruler-worship was a conscious device to achieve imperial unity and in fact succeeded as we know in its aim of unifying what for that time was almost the entire civilized world for over two and one-half centuries. Such findings, which have been wrested from the past by enormous creative efforts on the part of scholars, are potentially of great value to us today. Unlike the Romans we spend inordinate amounts of energy to demonstrate the fallibility of our government leaders. In the United States this has contributed in a very significant way towards a weakening of our faith in government itself.

Perhaps we could benefit by studying how the Romans achieved a unity in its Empire which is unmatched by any modern nation.

We are celebrating this year the fiftieth anniversary of the first published article of a very distinguished zoologist, Professor William Rowan—the first Chairman of our Department of Zoology. It was Professor Rowan who pioneered the field of what we call today photobiology, which embraces the various effects of light on animal life. Professor Rowan's outstanding work on bird migration demonstrated that the migratory pattern of birds is not related to temperature changes as had been thought in the past, but rather to the number of hours of daylight each day. As the winter approaches, the diurnal periods of daylight decrease and physiological changes occur in the birds which lead to southward migration. Professor Rowan showed that when the daily exposure to light was extended by using artificial light the pattern of migration among his birds could be completely reversed. As a result of Professor Rowan's outstanding work, many research workers throughout the world have been inspired to develop the field of photobiology so that today we have a much deeper understanding of this important area of the biological sciences.

There are many kinds of research carried out within a University. In some fields a single staff member may work with a group of students and be in communication with other such small scholarly groups with similar interests in other institutions. Other research programs may demand far greater team effort leading to groups of specialists working together to accomplish a well-defined objective of current importance. One such program arises from the vigorous commercial exploitation of our oil sands resources.

Thus in the recovery of bitumen from the oil sands by the hot-water process, enormous sand dykes must be erected to retain the tailings water during the settling process. These vast accumulations of sand pose special problems in the revegetative reclamation of the Fort McMurray region. They are understandably highly susceptible to wind and water erosion and special methods will have to be used to prevent the area from becoming a frigid expanse of growthless wasteland.

To devise methods of restoring the flora and fauna of the area, a team of staff members and research associates from our Departments of

Botany, Geography, and Soil Science are working with a group from the Department of Biology at the University of Calgary in developing a computer-based simulation model by which the effects of various variables on the reclamation system can be assessed. The program is obviously of great practical importance if we wish to preserve our environment while benefiting from the natural resources available within it. The program is sponsored by Alberta Environment and Environment Canada—the provincial and federal environment agencies respectively.

Some months ago in an editorial my good friends at the *Edmonton Journal* mildly rallied me for stating in a speech that the federal support of research had sunk to such an inadequate level that it bordered on national irresponsibility. They quoted the Minister, Mr. Drury, who had assured the Canadian people that all that happened was that Canada had changed priorities and decided to put more emphasis on applied research.

The facts are that the National Research Council budget, which is the major support at the federal level for research in Universities, increased by only seven percent over the five-year period from 1970 to 1975. With the value of the dollar deflating at a conservative estimate of six percent per year, this is tantamount in real dollar terms to decreasing the support for research over a five-year period by twenty percent. Actually the research dollar has decreased in value at a very much more rapid rate and one could conservatively estimate that the real dollar value of support from the National Research Council has decreased by a factor much closer to forty percent. The Medical Research Council has also suffered a similar but less dramatic decrease in purchasing power. All this, Mr. Drury assures us, is merely an indication that Canada, with characteristic political wisdom, has decided to put more emphasis on applied research, at the expense of basic research. Unfortunately those who know nothing about research, and are furthermore unaware of their own ignorance, do not realize that in many vital areas of knowledge we simply do not know enough to carry out applied research alone.

An excellent example of this vital point is in the field of organ transplantation. As we all know one of the major problems in transplantation is rejection by the patient's body of the transplanted tissue. We ask ourselves—How do cells recognize the quality of "foreign-ness"? This is a very exciting problem which requires a great deal of basic research in the field of immunology. In our Faculty of Medicine we have two research groups, one doing basic research in the problem of immunology, and the other doing applied

research on tissue rejection. It is the basic research which provides the information necessary to ask meaningful questions in applied research. It is therefore fundamentally unsound to say that this country can decrease its support of basic research and achieve greater accomplishments in applied research. The two are inalienably associated and if we do not understand this, some serious national mistakes can be made. In my view, the federal support of basic research has fallen in the past five years as I have already said, to such a low level that it borders on national irresponsibility.

Another example of this important relationship between basic and applied research exists in the investigation of the bitumens from our oil sands. For many years petroleum companies have been engaged in research of the chemical components present in the bitumens. But the methodologies used have been those of applied research alone, and these pre-suppose an understanding of the fundamental chemistry of bitumens which can only be supplied through basic research. In our Hydrocarbon Research Centre at the University of Alberta, fundamental studies are in progress on the various types of chemical compounds which gives the bitumens their unique characteristics. In the relatively short time that this Hydrocarbon Research Centre has been in operation it has been possible to unravel some of the most important structures within this natural treasure-house of hydrocarbons. This will lead to a much deeper understanding of how we can recover valuable products from the bitumens which would otherwise have been destroyed. We have again here but another example of where basic and applied research must work together. To de-emphasize one for the benefit of the other may be a politically appealing decision for the uninformed, but the social results may be tragic indeed.

One of the most exciting areas of applied research today has developed from the fundamental discovery of the laser. These intense emitters of coherent light energy have proven to have many uses, from eye surgery to astronomy. Currently our Department of Electrical Engineering is continuing its own original work in the field of large high-power continuous carbon dioxide lasers. These large units are of special value in producing very high quality welded joints in steel. They look especially promising for pipeline welding in the arctic, where a failure in the weld could have very serious ecological consequences. Another area of research wherein lasers may make a major breakthrough is in the energy field, where pulsed lasers can be used to heat plasma gas to millions of degrees kelvin and approach the conditions necessary to produce a fusion

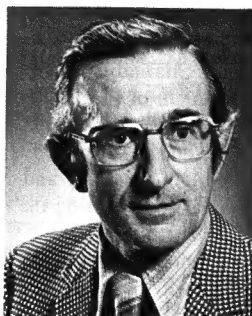
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reaction. Again our Faculty of Engineering is very active in this important field.

Despite the many advances which have been made in the vast field of medical science, mankind still suffers from many crippling afflictions including heart disease and cancer which continue to carry off all too many of us at a relatively young age. The human body is a staggeringly complex system of chemical reactions of which we understand a pitifully small number. In our fundamental understanding of the human body the greatest gaps in our knowledge involve proteins. Under the term "protein" are included vast numbers of chemical compounds which carry out a myriad of functions in the human body, from food digestion to blood clotting, to defensive mechanisms associated with the resistance to invasion by disease organisms. The more we understand protein structure and function, the greater our chances are of maintaining the human organism in a healthy state for a longer period of time. To this end the Medical Research Council of Canada has sponsored a special research group in protein structure and function in our Department of Biochemistry. The scientists in this research group are extremely capable and even though the group was only organized in 1974, very significant progress has already been made in the field.

One of the most interesting areas being investigated by the protein group is the mechanism by which chemical energy is converted into mechanical work by the contractile proteins of muscle and other similar tissue. From our understanding of this type of protein function we will be able ultimately to make progress toward counteracting those diseases which destroy muscle function, and in this connection we should never lose sight of the fact that in many respects the human heart is essentially a large muscle.

To roll back the frontiers of the unknown, and thereby provide for mankind a longer and richer and more rewarding life, is probably the most noble expression of the human spirit. This is one of our major dedications at the University of Alberta, and I have tried to illustrate in this Convocation Address today, a small sampling of the many valuable research studies in progress at our University. To me these accomplishments are far more important than new buildings and other such external manifestations of our institution. Through our capabilities in research we have at our disposal methods of solving many problems. We will dedicate these problem solving capabilities to the betterment of all those people who have shown the wisdom of providing us with the tools to carry on our creative work.



APPOINTMENT

Peter D. Walton has been appointed the Chairman of the Department of Plant Science effective December 1. Dr. Walton, who joined the academic staff of this university in 1969, is a specialist in plant breeding. He holds BSc and MSc degrees from Durham University in England and a Doctor of Philosophy degree from the University of Lancaster in England. His research projects include studies of winter hardiness, genotype by environment interaction, the physiology of forage yield, and pasture management. Dr. Walton, a Fellow of the Royal Society of Arts, has published widely on plant breeding in the Sudan, Uganda, and Western Canada.

BOARD OF GOVERNORS

The Board of Governors and its Executive Committee met Friday, November 7, 1975.

Lister Hall Handbook

In response to a query as to whether or not a contract between residence students and the University outlining the terms under which a student may assume residence on campus required the formal approval of the Board, the University solicitor was called upon to address the meeting. He said that while the matter would normally come under the jurisdiction of the Vice-President (Finance and Administration) there was no reason why the Board could not require the Vice-President (Finance and Administration) to secure Board approval before issuing certain forms of contract or even to review the existing contract. A new contract and handbook has been prepared on an interim basis in order to meet a Board requirement that changes be in place by the beginning of the Winter Session. Objections had been raised at an earlier meeting by student members of the Board with respect to the right of entry by University officials to students' rooms. It was agreed that any significant changes to the contract and handbook, which are still under revision, will come before the Board.

Sabbatical Leave Funding

The Board received a recommendation from the Deans' Council that the Board of Governors and the Academic Staff Association discuss means of increasing sabbatical leave funding.

North Power Plant

The Board Building Committee reported that it has approved the allocation of contingency funds up to the amount of \$1,000 for that part of the initial planning of the North Power Plant which is strictly University oriented. As about thirty percent of the space as proposed by the Graduate Students' Association will be used by the University in the North Power Plant, this assistance was requested by the

Graduate Students' Association in developing plans and a feasibility proposal for the development of a Graduate Students' Centre there.

West 240: Interim Uses

The Board Building Committee has agreed to the interim use of the West 240 by the Department of Art and Design with respect to experiments in geodesic and like structures, to the use of up to 85 acres for Plant Science in two separate blocks for crop research on a three year cycle basis, and by Civil Engineering for conducting a survey school for two to three weeks in April on a year-to-year basis. These uses are of a short term nature which can be terminated on relatively short notice. The Campus Development Committee has reconstituted a subcommittee to study the long-term use of the West 240 which is to be chaired by R. Tait.

Entomology-Provision of Temporary Building

The Building Committee reported that approval had been granted for the provision of a temporary building for the Department of Entomology adjacent to the location of the rest of the Department in the Athabasca annex. This partial relocation is necessitated by utilities construction at the west end of the Athabasca annex. The Committee has further agreed that the plans for renovating Athabasca Hall should include its annex.

Day Care Centre

The Board approved a request by the Students' Union and Community Day Care Centre for a grant of \$2,500 for 1975-76, on the understanding that the Centre will report back to the Board after the end of its fiscal year on its efforts to achieve a break-even operation.

World University Service of Canada

Recently the World University Service of Canada (WUSC) reactivated a practice of sending delegates to research seminars in other countries. This year two students were sent to the 1975 WUSC seminar in Egypt. In order to remit their tuition fees, as had previously been

the case, the authority of the Board was required. This was granted.

New Trail Budget Increased

An additional \$20,000 was added to the 1975-76 operating budget of the Publications Office to cover increased publication costs of *New Trail* magazine, subject to the following conditions:

1. that an appeal to readers for financial support of the magazine be made in the next issue;
2. that readers be asked for their opinions regarding the revised format of *New Trail*;
3. that the budget for *New Trail* be again reviewed by the Finance Committee in one year; and
4. that the objectives of the *New Trail* be communicated to the Committee.

An amendment put forward by Ron Dalby to amend the motion by deleting the first condition was defeated.

Fee for Credit by Special Assessment

A recommendation that a flat fee of \$40 be charged for special assessment for credit extends the present policy providing for this fee only when a special examination has been set. The concept of credit by special assessment adopted by General Faculties Council in 1974 is defined as *a device that might be used when a student, whether by private study or by other means, felt he had mastered the equivalent of a course at the University*. This is in recognition of the often time consuming effort involved in such assessments even when examinations are not involved.

Position of Native Student Advisor Created

The Board approved the allocation of up to \$30,000 for a twelve month period with which to fund the position of Native Student Advisor plus necessary support staff and services. The position will be evaluated at the end of the twelve months and a decision will be made regarding its continuance. The office is intended to enhance communication between the University and native groups. The native student advisor is to be available to native students on campus; there are presently twenty-five enrolled here.

SENATE HEARING ON MANAGEMENT ADVISORY INSTITUTE

At the request of the Board of Governors, the University Senate held a public hearing November 13, 1975 at the Hotel Macdonald to inquire into the function of the proposed Management Advisory Institute (MAI) and the possibility of its competing to unfair advantage with the existing consulting industry. Chairing the forum was Ed Lewis, a Calgary

lawyer, formerly a legal advisor to the Imperial Oil Company, presently associated with the Devonian Group of Charitable Organizations, and past president of the Calgary and Alberta Chambers of Commerce. On the panel conducting the questioning were Senate members Ron Dalby, Hal Spelliscy and Jean Forest. In consequence of this hearing the Senate will be reporting to the Board of Governors with recommendations as to the establishment of the MAI and if so, under what conditions, if there are any.

President Harry Gunning was first to speak after some opening remarks by the Chairman. Dr. Gunning discussed the University policies which provided for the conducting of consultation work by academic staff members within their professions. Dr. Gunning contrasted these policies with those of many American Universities focussing on the mechanisms used by each to control such practices. He also discussed the significance of consulting work in keeping professors in touch with their professions, and thereby making their instruction more relevant.

Following this, E.J. Chambers, Dean of the Faculty of Business Administration and Commerce, gave an account of the proposed operation of the MAI and the circumstances under which the Institute was conceived. These included the fact that a grant had been received from the federal department of Industry, Trade, and Commerce.

A number of individuals, primarily those representing the consulting industry along with a number of students and professors were given the opportunity of addressing the panel and to amend or supplement submissions made previously in writing which registered their objections to or support of the MAI.

One of the most vocal of these was Lyle Markley, president of PMS Consultants of Edmonton. As an exception to those others of the industry present whose major contention was with the MAI being permitted to direct contract, Mr. Markley objected to the MAI in principle. His criticism fell on the MAI for duplicating the function of the University Department of Extension in its role of disseminating knowledge to the private sector, and on the Faculty of Business Administration and Commerce for proposing that staff be permitted the opportunity of outside consulting when teaching demands were already being reputed as burdensome. Generally he was opposed to the MAI on the grounds that its function was not an appropriate one for a university. That the MAI could potentially compete with the private consulting industry with the advantages of federal grants and University facilities was what he considered to be a very real and unfair possibility.

In the course of the hearing Dean Chambers gave assurances that it was not intended for the MAI to compete with the private consulting industry nor that the MAI would direct contract. This seemed sufficient for many of those who had originally objected to significantly reduce their original positions.

At the close of the hearing the general reaction of those present was that the proceedings had been handled fairly and reasonably and that there was confidence in the panel to make a judicious recommendation to the Board of Governors.

DIVISION OF EAST EUROPEAN AND SOVIET STUDIES OFFICIALLY OPENS

In May of 1974, the Committee on East European and Soviet Studies was designated the Division of East European and Soviet Studies by the Council of the Faculty of Graduate Studies and Research, of which the Division is a part. In September of 1975, the Division acquired a new office in 126 Assiniboia Hall and was given a budget which allowed for the hiring of a part-time Director, a staff member, and a part-time secretary. The official opening of the Division of East European and Soviet Studies will take place in Assiniboia Hall on November 21 at 3 p.m.; A.E. Hohol, Minister of Advanced Education and Manpower, will participate in the opening.

The Division's origins date back to 1959 when it began as an informal interdepartmental committee in the Faculty of Arts formed to assist in the coordination of the increasing number of courses on Eastern Europe given at the University. The next year, the Council of the Faculty of Arts and Sciences gave the committee official status by designating it the Inter-Departmental Committee on Slavonic Studies. In 1966, the Inter-Departmental Committee changed its name to the Inter-Departmental Committee on Soviet and East European Studies in order that the name more closely "reflect the geographical interest and particular disciplines of its participants."

Because the activities of this Committee had prominence at the graduate level, and because of its interdisciplinary interests and inter-faculty composition, the Committee sent a submission to the Dean of the Faculty of Graduate Studies and Research in October of 1971. This submission requested transfer from the Faculty of Arts to the Faculty of Graduate Studies and Research in order that the Committee could develop a program in Eastern European studies which would lead to the master's degree. On May 15, 1973, the Council of the Faculty of Arts agreed to the transfer of the Committee to the Faculty of

Graduate Studies and Research and the following day, the Council of the Faculty of Graduate Studies and Research informed the Committee that it was now in that Faculty, except for its undergraduate activities.

The academic proposals which were contained in the submission presented to the Dean of Graduate Studies were reviewed by an *ad hoc* committee of that faculty chaired by John Forster. This committee supported the recommendations of the Committee and the general objectives which it had put forward. The Forster committee report stated that the "goals and purposes of the East European and Soviet Studies Committee clearly reflect an historical and demographic reality of this province" and further that the committee was "impressed by the [potential] of the Committee . . . to offer graduate education . . . by combining resources now scattered in many separate departments." The Committee became a Division in May of 1974.

The tasks of the Division of East European and Soviet Studies are to cooperate with various departments in offering programs leading to graduate degrees with specialization in East European and Soviet Studies; to promote and coordinate interdisciplinary studies on Eastern Europe, the Soviet Union, and East European peoples of Canada; to serve as a focus for students and other groups interested in East European Studies; and to serve as a focus within the University for interaction with East European ethnocultural groups in Alberta.

The graduate programs are developed and administered by the various departments with the cooperation of the Division. Participating departments are Comparative Literature, Economics, Educational Foundations, Educational Psychology, Geography, History, Physical Education, Political Science, Sociology and Slavic Languages. The coordination of studies on East Europe and the Soviet Union is achieved through the organization of inter-departmental, inter-disciplinary courses (Inter-departmental Etudies 346, 446, and 546) which are designed to facilitate access to East European and Soviet sources of research for all disciplines in the University.

The Division also helps to organize conferences and lectures. In cooperation with the Edmonton Ukrainian Professional and Businessmen's Club, for example, the Division sponsors the annual Shevchenko Lecture. These lectures deal with some aspect of Ukrainian literature, history, or culture. In March of 1974, the Division hosted the second meeting of the inter-University Conference on East European and Soviet Studies. In June at the meeting of the Learned Societies, members of the Division attended the meetings of the Canadian Association of Slavists. At that

conference a group was formed to study the non-Slavic regions and peoples of Central and Eastern Europe (Balts, Romanians, Hungarians, Jews, Finns, Greeks, and Germans). The group is centered at this University in the Division of East European and Soviet Studies.

The members of the Standing Committee on the Division are appointed by the Council of the Faculty of Graduate Studies and Research. No more than two may be appointed from any one department of the University. The Director is appointed by the Dean usually on the recommendation of the members of the Division. The executive committee consists of the Director, a faculty member holding an appointment in the Division, and two additional members elected by the Standing Committee. Members of the Division of East European and Soviet Studies are: M. Gulutsan, Director; R.L. Busch; Z. Eisenstein; S. Greenhill; L. Kosinski; M.R. Lupul; I. Moravcik; M. Mote; C. Suchowsky; T. Priestly; T. Yedlin; S. Munro; K. Taylor; E. Mozejko; and G. Glassford.

The first graduate from the interdisciplinary program was patricia Johnson. Students presently registered are Irene Arke, Ausma Birzgalis, Lyn Tait, and Arga Kargodorian.

RED CROSS CLINIC BEGINS 24 NOVEMBER

Starting on Monday, November 24, the Red Cross will be holding a blood donor clinic at the University. The clinic runs until Friday, December 5, and will operate between the hours of 10 a.m. and 1 p.m. and 3 p.m. and 5 p.m. in the Students' Union Building. There will also be a clinic set up in HUB from November 24 until November 28; this clinic is in operation from 2 p.m. to 5 p.m.

Giving blood takes only a half hour and the organizers of the clinic encourage faculty and staff to take that half hour to give blood. At any given time there are about thirty-five people out of a hundred who can give blood, but it normally happens that only about three out of a hundred actually do so. The need for blood is always with us—over one million pints are needed each year, are in Edmonton there is a need for about one thousand pints per week. Organizers suggest that if you have never given blood and are not sure what it entails you should drop around to the clinic and have a look. If you are a donor, they say, you should bring along a friend who has not given blood. With the Christmas season approaching and the need for blood increasing, the Red Cross is hoping for a strong turn-out at this blood donor clinic. One hopes they will not be disappointed.

AGENDA FOR GENERAL FACULTIES COUNCIL MEETING

The following has been received from Margaret Midgley, Secretary to General Faculties Council.

A meeting of General Faculties Council will be held on Monday, November 24 at 2:00 p.m. in Council Chambers, University Hall.

1. Approval of the Agenda.
2. Approval of the Minutes of November 3, 1975.
3. Question Period.
4. Executive Report:
Executive Committee Minutes of October 20, 1975.
5. Use and Confidentiality of Student Files:
Request from Graduate Students' Association.
6. University Planning Committee:
Report on Preparation of the 1975-76 Operating Budget.
7. General Promotions and Salaries Committee:
Annual Report.
8. Graduate Students' Association:
Proposal for Increased Graduate Student Representation on G.F.C. Committees.
9. Access to Student Data for Research Purposes:
Re-examination of Policy.
10. Other Business.

PEOPLE

■ Pierre A.R. Monod, Associate Professor of Romance Languages, addressed the Alberta Modern Language Council at Banff on "Film Presentation Techniques."

NOTICES

WESTERN CANADIAN PUBLISHING

A group of Canadianists from English and History, encouraged by the University of Alberta Library, the University of Alberta Press, and the Vice-President (Academic), are proposing a program of serious, scholarly editing and publishing of Western Canadiana, both original and reprint.

The group is not exclusive and welcomes ideas and comments from the University at large. The aim of the group is to apply to the Canada Council for a major editorial grant to enable the proposed project to be carried out by this University in a long-term fashion. A provisional editorial board will be formed in the near future and will include representatives from interested departments.

Any suggestions regarding worthy titles together with briefly stated reasons why they should be published or reprinted should be sent
(Continued on page eight)

December 1975

November	January	February
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29



Drawings by William Rowan.
Courtesy University of Alberta Archives.

	monday	tuesday	wednesday	thursday	friday	saturday
	1 <ul style="list-style-type: none">■ Last day for receiving applications for admission to programs commencing in the Second Term.■ Last day for withdrawing from First Term courses in the Faculty of Engineering.■ To 6 Saturday. Mid-session or final examinations (if any) for all On-Campus Evening Degree Credit Courses will be held during the regular instruction period.	2	3	4 <ul style="list-style-type: none">■ 9 a.m. Meeting of the Academic Development Committee.	5 <ul style="list-style-type: none">■ 9 a.m. Meeting of the Board of Governors.	6 <ul style="list-style-type: none">■ Last day of lectures in First Term, except in Dentistry and Medicine.
sunday	8 <ul style="list-style-type: none">■ To 13 Saturday. Mid-session Examination Week. Off-campus University organized extra-curricular activities will not normally be allowed this week. Examination week for Evening Credit (Off-Campus) courses.	9 <ul style="list-style-type: none">■ 4:45 p.m. Meeting of the departmental representatives of the Non-Academic Staff Association.■ 7:30 p.m. Meeting of the Council of the Graduate Students' Association.	10	11 <ul style="list-style-type: none">■ 9 a.m. Meeting of the Academic Development Committee.■ 2 p.m. Meeting of the University Planning Committee.	12 <ul style="list-style-type: none">■ Last day of First Term lectures in Dentistry.■ 9 a.m. Meeting of the Campus Development Committee.	13
14 <ul style="list-style-type: none">■ Christmas vacation begins except for students in Law and Medicine.	15 <ul style="list-style-type: none">■ Last day for receiving mail registrations in Second Term courses of the Evening Credit Program (Off-Campus).■ 2 p.m. Meeting of the General Faculties Council.	16	17 <ul style="list-style-type: none">■ 2:30 p.m. Meeting of the Deans' Council.	18 <ul style="list-style-type: none">■ Christmas vacation begins for students in first and second year Medicine.■ 9 a.m. Meeting of the Academic Development Committee.	19 <ul style="list-style-type: none">■ 9 a.m. Meeting of the Campus Development Committee.■ 2 p.m. Meeting of the Council on Graduate Studies and Research.	20
21 <ul style="list-style-type: none">■ Christmas vacation begins for students in Law.	22	23	24	25 <ul style="list-style-type: none">■ Christmas Day; University buildings closed.	26 <ul style="list-style-type: none">■ Boxing Day.	27
28	29	30	31 <ul style="list-style-type: none">■ Last day receipt of applications. Certificates of Post-Graduate Qualifications in Medicine.			

(Continued from page five)

to D. Jackel of the Department of English or to J. Foster of the Department of History.

VIDEO TAPES OF 1975 TORY LECTURE

The Department of Radio and Television video-taped the 1975 Tory Lecture, "Developing Countries on the Polar Seas" by S.M. Hodgson, Commissioner of the Northwest Territories. Anyone interested in viewing the tapes can do so either in the Humanities AV Centre L2-6 or the Reserve Reading Room in Cameron Library. The lecture was recorded on video cassettes, and playback equipment consisting of a video player, a nine inch monitor, and a set of headphones is available in both the above locations.

EDMONTON RECORDER SOCIETY

The Edmonton Recorder Society will meet on Friday, November 21 at 8 p.m. in the Southwest Cultural Centre, 115 Street and 74 Avenue. Groups will perform. Further information can be obtained from Louise Dawson at 434-0091.

FACULTY CLUB CANCELLATION

The performance of the University of Alberta String Quartet scheduled for November 26 at the Faculty Club has been postponed until January 14, 1976.

PUBLIC LECTURE

Theodore P. Labuza, Professor of Food Science, University of Minnesota, will deliver a public lecture entitled "Consumer lost in the market place" on Tuesday, November 25 at 3:30 p.m. in TL-11 Tory Building. Dr. Labuza, who collaborated with the National Aeronautics and Space Administration on the development of food systems for the Apollo moon flight missions, will be discussing some of the current controversial issues surrounding our food supply.

FIRE AND MAINTENANCE TELEPHONE NUMBERS

On December 1, 1975, the telephone numbers for fire and maintenance will be changed to:

Fire Emergency (24 hours/7 days)—4855

Maintenance (24 hours/7 days)—4833

This change is required because, with the installation of the new Centrex telephone exchange in June 1976, the 1XXX series of telephone numbers will be eliminated from University use.

PUBLIC LECTURE

Hans-Arne Eriksson, Research Leader in thermal comfort of cab operators at the Swedish Institute of Agricultural Engineering, Ultuna, Uppsala, Sweden, will present a seminar on "Heating, ventilating, and cooling of cab enclosures" on Thursday, November 27 at 3:30 p.m. in E342 Chemical-Mineral Engineering Building. For further information about this lecture, please call K.W. Domier at 432-4251.

ENVIRONMENTAL REMINDER

Dennis Wighton, Co-ordinator of the Inter-disciplinary Committee for Environmental Quality, wishes to remind University staff that by obeying the signs inside University vehicles—that is, do not leave engines running when not occupied or in use—energy can be conserved and the problem of air pollution can be reduced.

ACCOMMODATION AVAILABLE

There are a limited number of rooms available in Lister Hall Complex and Pembina Hall (Room and Board Contract) for the remainder of the 1975-76 University term. For further information, please call 432-4281 weekdays from 8:30 a.m. to 4:30 p.m.

VIDEO TAPES OF WAGE AND PRICE CONTROL DISCUSSION AVAILABLE

The Department of Radio and Television videotaped the discussion "Wage and price controls one month after" held on Thursday, November 13. The speakers at this discussion were G.R. Davy and F.C. Englemann of this University and Duff Spafford of the University of Saskatchewan, currently a visiting professor here.

Anyone interested in viewing the tapes can do so either in the Humanities AV Centre L2-6 or the Reserve Reading Room in Cameron Library. The discussion was recorded on video cassette; playback equipment consisting of a video player, a nine inch monitor and a set of headphones is available in both the above locations.

GENERAL FACULTIES COUNCIL REVIEW COMMITTEE VACANCY

The GFC Nominating Committee is seeking nominations for one person to be elected by General Faculties Council to serve on the Review Committee for Chairman of the Department of Secondary Education. Regulations governing the composition of Review Committees require that one member, not a member of the Department concerned, be elected by General Faculties Council.

Persons who have suggestions for nominations or who are interested in serving on the above committee are requested to contact the Secretary of the Nominating Committee, 2-1 University Hall, phone 432-4965, by November 27, 1975.

LECTURE ON SOVIET AGRICULTURE

An open public lecture will be given on Wednesday, November 26 by Alec Nove, Professor at the University of Glasgow and editor of *Soviet Studies*. The lecture, which will begin at 3:30 p.m. in TL-B2 Tory Lecture Theatre, is entitled "Soviet agriculture: is there a cure?" Professor Nove is best known for his research on the Soviet economy and Soviet economic history. The lecture is

sponsored by the Department of Economics and the Division of East European and Soviet Studies in conjunction with the Faculty of Arts.

THIS WEEK AND NEXT

Listings must reach the Editor by 9 a.m. the Friday prior to publication. Written notification is preferred.

20 NOVEMBER, THURSDAY

Classics Seminar

4 p.m. "Tiberius and the Praetorian elections of AD 16: a discussion of Tacitus' Annals, 1.14-15" by C.J. Simpson. 1-14 Humanities Centre.

Light and Animal Life

4 p.m. "Microtubules and pigment granule movement in melanospores" by S.E. Zalik. 4:20 p.m. "Involvement of membranes and membranous organelles in photoresponse" by S.K. Malhotra.

4:40 p.m. "An attempt to define an action spectrum for photoembryogenesis" by J.K. Lauber.

5 p.m. "Light pollution: should we be worried?" by P. Mitchell. All sessions to be held in CW410 Biological Sciences Centre.

Mathematics Colloquium

4 p.m. "Foliating space-time on a computer" by L. Smarr, Department of Astrophysics, Princeton University. 657 Central Academic Building.

Entomology Seminar

4:30 p.m. "What is 'evolutionary genetics'? Is a revolution inevitable?" by B. Chiolino. 245 Agriculture Building.

Student Cinema

7 p.m. and 9:30 p.m. *Nashville* (United States, 1975). Directed by Robert Altman. Students' Union Theatre. Admission \$1 advance or \$1.50 at the door.

German Film

7:30 p.m. Kleist's *Der zerbrochene Krug* (1937). Theatre Room, 17 Arts Building. Admission free. Sponsored by the Department of Germanic Languages.

Gallery Cinema

7:30 p.m. *The Water Was So Clear* (Japan, 1973). Downstairs, Edmonton Art Gallery. Admission \$2.

Edmonton Symphony Orchestra

8:30 p.m. The du Maurier Promenade Series features *Musical America*, a selection from the musicals. Jubilee Auditorium. Tickets available from the Bay Box Office or from the Symphony Box Office, phone 433-2020.

21 NOVEMBER, FRIDAY

Lectures

Margaret Randall, author of *Cuban Women Now*, will give a series of talks:

11 a.m. to 12 noon. "Family Code in Cuba."

Sponsored by the Department of History.

2-36 Tory Building.

12 noon to 2 p.m. "Women in Cuba" plus film.

Sponsored by the Student Christian Movement

and the Students' Union. 142 Students' Union

Building.

3:30 p.m. "Education of Women in Cuba."

Sponsored by the World University Service

and the Department of Educational Founda-

tions. 2-115 Education North.

8 p.m. "Cuban women and the revolution."

Sponsored by the Women's Program Centre.

158 Students' Union Building.

Light and Animal Life

2:15 p.m. Seminar "Photobiology in medicine"

by Thomas R.C. Sisson of Temple University.

4 p.m. Seminar "Reflectors and their role in

vision" by J.A.C. Nicol of the University of

Texas Marine Science Institute. Both seminars

held in CW 410 Biological Sciences Building.

Faculty Club

Downstairs. "English Pub Night." Cold beef,

pickled onions, bulk cheddar board, ham and

veal pie. \$3.25. Entertainment: Jamie Moore.

Upstairs. Lobster \$11.50. Regular dinner menu.

Reservations required.

Student Cinema

7 p.m. and 9:30 p.m. *Nashville* (United States,

1975). Students' Union Theatre. Tickets \$1

advance or \$1.50 at the door.

Gallery Cinema

7:30 p.m. *Les Smattes/Smart Guys* (Canada,

1971). Downstairs, Edmonton Art Gallery.

Admission \$2.

Public Lecture

8 p.m. The Alberta Geographical Society

presents a lecture entitled "The Social milieu

of international welfare and development" by

Gordon Merrill, Professor of Geography,

Carleton University, presently on leave and

attached to the Unitarian Service Committee

of Canada as Special Advisor. TLB-2 Tory

Building.

Hockey

8 p.m. Golden Bears versus the University of

Saskatchewan. Varsity Arena.

Volleyball

8 p.m. The University of Alberta versus the

University of Lethbridge. Main Gymnasium.

Edmonton Symphony Orchestra

8:30 p.m. The du Maurier Promenade Series

features *Musical America*, a selection from the

musicals. Jubilee Auditorium. Tickets available

from the Bay Box Office or the Symphony

Box Office, phone 433-2020.

22 NOVEMBER, SATURDAY

Faculty Club

Downstairs. "Fondue Night." Cheese fondue,

salad, and ananas aux kirsch. \$4.

Upstairs. Lobster \$11.50. Regular dinner menu.

Reservations required.

Student Cinema

7 p.m. and 9:30 p.m. *Nashville* (United States,

1975). Directed by Robert Altman. Students'

Union Theatre. Tickets \$1 advance or \$1.50

at the door.

Volleyball

8 p.m. Pandas versus the University of

Victoria. Main Gymnasium.

Hockey

8 p.m. Golden Bears versus the University of

Saskatchewan. Varsity Arena.

Audubon Wildlife Film

8 p.m. *Malheur: Marsh, Meadow, Mountain*

by James D. Hammond. TL-11 Tory Lecture

Theatre. Adults \$1.50 and children 50 cents at

the door.

23 NOVEMBER, SUNDAY

Grey Cup Party

Watch the game in color over a cool brew.

Admission including all refreshments is \$2.50.

Doors open in time for the pre-game show.

Grad House. Sponsored by the Graduate

Students' Association.

Gallery Cinema

2 p.m. *Two Daughters* (India, 1961).

Directed by Satyajit Ray. Downstairs,

Edmonton Art Gallery. Admission \$2.

Student Cinema

7 p.m. and 9:30 p.m. *Nashville* (United States,

1975). Directed by Robert Altman. Students'

Union Theatre. Admission \$1 advance or

\$1.50 at the door.

Concert

8:30 p.m. The Contemporary Music Workshop

presents Toronto pianist and composer

Lubomyr Melnyk performing original works

for solo piano as well as for duets and trios

with Jerry Ozipko and Bruce Kramer.

Convocation Hall. Admission \$2.50 at the door.

24 NOVEMBER, MONDAY

Population Studies Seminar

11 a.m. Suzanne Brazeau, Director of Family

Planning, Health and Welfare Canada, will

hold an informal meeting of persons interested

in population and family planning. T5-15

Tory Building.

Plant Science Seminar

1 p.m. "The Effects of GA on aleurone tissue"

by D.J. Kyle. 490 Agriculture Building.

Edmonton Film Society

8 p.m. *Days and Nights in the Forest* (India,

1969). Directed by Satyajit Ray. International

Series. Students' Union Theatre. Single

admission tickets available for this film.

25 NOVEMBER, TUESDAY

Classics Seminar

3 p.m. "How to teach Latin—ideas past, present

and future" by Maurice Pope, Visiting

Professor at the University of Victoria and

Western Tour Speaker of the Classical

Association of Canada. Humanities Centre 1-8.

Lecture

3:30 p.m. "Consumer lost in the market place"

by Theodore P. Labuza, Professor of Food

Science, University of Minnesota. TL-11 Tory

Building.

Lecture

8 p.m. "Policy for the eastern slopes" by Dave

Russell, Minister of the Environment. This is

a public meeting of the National and

Provincial Parks Association. Provincial

Museum Auditorium. Admission free.

26 NOVEMBER, WEDNESDAY

Lecture

11 a.m. "Ancient technology and modern

attitudes" by Maurice Pope, Visiting

Professor at the University of Victoria.

Humanities Centre L-3.

Poetry Reading

12:10 p.m. Dame Peggy Ashcroft and John

Neville read from the works of Pablo Neruda.

Citadel Theatre. Admission \$1. Coffee and

sandwiches available from the Citadel

Houselighters.

Botany Seminar

4:30 p.m. "Aspects of vegetative and fertile

morphology of the genus *botryopteris* from

the Pennsylvanian of Kansas" by Mark

Brosier. CW 230 Biological Sciences Building.

Student Cinema

7 p.m. and 9:30 p.m. *Day for Night* (France,

1973). Directed by Francois Truffaut, starring

Jacqueline Bisset and Jean-Pierre Aumont.

Students' Union Theatre. Admission \$1 advance

or \$1.50 at the door.

Edmonton Film Society

8 p.m. *Phantom Lady* and *Detour* (United

States, 1940s). Film Noir Series. Tory Lecture

Theatre. Series tickets available at the door.

Canadian Authors Series

8 p.m. Matt Cohen, Canadian novelist and

writer-in-residence at the University, will read

from his works at Grant MacEwan Community

College's Cromdale Campus, 8020 118 Avenue.

Admission free.

Edmonton Chamber Music Society
8:30 p.m. The Guarneri String Quartet will perform works by Haydn, Beethoven, and Schumann. Convocation Hall, Arts Building. Members only; the season is completely sold out.

27 NOVEMBER, THURSDAY

Lecture

3:30 p.m. "Heating, ventilating, and cooling of cab enclosures" by Hans-Arne Eriksson, Research Leader in thermal comfort of cab operators at the Swedish Institute of Agricultural Engineering. E342 Chemical-Mineral Engineering Building.

Entomology Seminar

4:30 p.m. "In Search of the biological significance of my data. To which biological principle do 'grouping effects' relate, especially with reference to *acheta domesticus*, the house cricket?" by D. Walter. 245 Agriculture Building.

Student Cinema

7 p.m. *Daisy Miller* (United States, 1974). Directed by Peter Bogdanovich, starring Cybil Shepherd.

9:30 p.m. *Once is not Enough* (United States, 1975). Directed by G. Green, with Kirk Douglas and Alexis Smith. Admission to both features is \$1.50 advance or \$2 at the door. Regular admission for one feature.

German Film

7:30 p.m. Lessing's *Minna von Barnhelm*

(1966). Sponsored by the Department of Germanic Languages. Theatre Room, 17 Arts Building. Admission free.

Gallery Cinema

7:30 p.m. *Death by Hanging* (Japan, 1968). Directed by Nagisa Oshima. Downstairs, Edmonton Art Gallery. Admission \$2.

Opera

8 p.m. The Edmonton Opera Association presents Cristina Deutekom in Bellini's *Norma* (in Italian). Jubilee Auditorium. Ticket information from 424-5797.

28 NOVEMBER, FRIDAY

Faculty Club

Downstairs. Baked ham and sweet potato. \$3.75.

Upstairs. "Elizabethan Night." An Elizabethan atmosphere is recreated complete with madrigal singing, juggling, a wandering minstrel, and the sportfulness of a one-act play. Rack O'Boeuf, garden carrots, corn bread, fruit and cheddar, mead and ale by ewer and flask. \$12.50. Entertainment: The Northern Light Players. The house greets kindly all bodices, doublets, pantaloons, and partlets. Reservations required. No regular dining upstairs.

Student Cinema

7 p.m. *Daisy Miller* (United States, 1974). Directed by Peter Bogdanovich, starring Cybil Shepherd.

9:30 p.m. *Once is not Enough* (United States, 1975). Directed by G. Green, with Kirk Douglas and Alexis Smith. Admission to both features is \$1.50 advance or \$2 at the door. Regular admission for one feature.

Gallery Cinema

7:30 p.m. *A Tout Prendre/Take it All* (Canada, 1963). Directed by Claude Jutra. Downstairs, Edmonton Art Gallery. Admission \$2.

Hockey

8 p.m. Golden Bears versus the University of Calgary Dinosaurs. Varsity Arena.

29 NOVEMBER, SATURDAY

Faculty Club

Downstairs. "Flan Night." Variety of flans, fresh fruit salad. \$3.75.
Upstairs. Regular dinner menu. Reservations required. Entertainment: Vern Hittinger Trio.

Student Cinema

7 p.m. *Once is not Enough* (United States, 1975).
9:30 p.m. *Daisy Miller* (United States, 1974). Students' Union Theatre. Admission to both features is \$1.50 advance or \$2 at the door. Regular admission for one feature.

Hockey

8 p.m. Golden Bears versus the University of Calgary Dinosaurs. Varsity Arena.

Opera

8 p.m. The Edmonton Opera Association presents Cristina Deutekom in Bellini's *Norma* (in Italian). Jubilee Auditorium. Ticket information from 424-5797.

EXHIBITIONS AND PLAYS

Theatre Francais Edmonton

21, 22, 23, et 28, 29, 30 novembre. *La Mouette* d'Anton Tchekhov. Collège Universitaire Saint-Jean. Pour renseignements et billets: 469-0829.

Citadel Theatre

Until 29 November. *Dear Liar* by Jerome Kilty. Starring Dame Peggy Ashcroft and John Neville. Curtain times Tuesday through Saturday at 8:30 p.m.; Sunday performances at 2:30 p.m. and 7:30 p.m. Tickets available from the Citadel Box Office, phone 424-2828.

Edmonton Art Gallery

Until 1 December. "Art Deco," an exhibition of furniture and decorations in Art Deco, a modern streamline style which is the beginning of functionalism in design.

Until 8 December. "Sculpture by John Weaver," a display of large and small works on western themes by the artist who sculpted "The Stake" and "The Pronghorns" at the Provincial Museum.

Until 10 December. "Edmonton Entrances," an exhibition of reproductions of painted stucco doorways found in the city.

Until 12 December. "A Roof over your head," a display of photographs surveying various aspects of domestic architecture. Junior Gallery.

Provincial Museum

Until 30 November. "North from Blatchford Field," an exhibition of photographs, engines, flight jackets, and equipment tracing the history of Edmonton's Industrial Airport. Feature Gallery 2.

Until 30 November. "The Decorative Arts of West Africa," a selection of decorative arts including carved wooden headdresses, masks, and items of bronze and earthenware. Feature Gallery 1.

Until 4 January. "Athapaskans," an exhibition of costumes, snowshoes, hunting and fishing equipment of the Chipewyan, Dogrib, Beaver, and other tribes. Feature Gallery 3.

Continuing. "Documentary Heritage," a long-term exhibition displaying valuable manuscripts and documents in the Provincial Archives of Alberta. Archives Gallery.

Faculty Club

The University of Alberta

Friday 28 November

Downstairs:

\$3.75

Baked Ham and Sweet Potato

Upstairs:

ELIZABETHAN NIGHT

\$12.50 7:00 p.m.

A 16th century atmosphere is recreated complete with madrigal singing, juggling, a wandering minstrel, and the sportfulness of a one act play.

MENU: Rack O'Boeuf, garden carrots, corn bread, fruit and cheddar, mead and ale by ewer and flask.

Reservations please.

ENTERTAINMENT: The Northern Lights Theatre. The house greets kindly all bodices, doublets, pantaloons and partlets.

No regular dining upstairs.

Centennial Library

Until 30 November. A one-man show of paintings by Margaret Mooney. Foyer Gallery.

Liturgical Banner Exhibit

Until 30 November. An exhibit of thirty prize-winning liturgical banners from the Centennial Banner Competition of the Presbyterian Church in Canada will be shown in St. Timothy's Anglican Church, 145 Street and 84 Avenue. Saturday and Sunday from 10 a.m. to 3 p.m.; group showings available by phoning 488-6143. Admission free.

Northern Light Theatre

Until 5 December. *Birdbath* by Leonard Melfi. A tragicomedy set in present-day New York involving an encounter between a young man and a young woman under unusual circumstances. Curtain times Monday through Friday at 12:10 p.m. with extra performances on Thursday and Friday at 1:10 p.m. Art Gallery Theatre. Admission \$1.50.

Walterdale Theatre

Until 29 November. *Sleuth* by Anthony Shaffer. Walterdale Theatre, 10322 83 Avenue. Tickets available from the Bay Box Office for \$3, phone 424-0121.

GRADUATE SCHOLARSHIPS AND AWARDS

All enquiries should be directed to L. Henderson, Administrator of Student Awards, 219 Central Academic Building, 432-1495.

Boreal Institute for Northern Studies

Where tenable: research in the north. *Level of study:* graduate students, University staff, and qualified persons. *Conditions:* purpose is to support research in Northern Alberta, the western portion of the Northwest Territories and the Yukon Territory in any recognized scientific discipline. Funds available for awarding grants is quite modest. *Closing date:* December 16, 1975. *Further information and application forms should be requested from:* the Student Awards Office, 219 Central Academic Building and the Boreal Institute for Northern Studies, CW401 Biological Sciences Building.

POSITIONS VACANT

ACADEMIC POSITION

Administrative Officer Housing and Food Services

Duties: to design and implement accounting systems for planning and control purposes. Additional duties include budget preparation, supervision of accounting staff, and departmental meeting representation. *Qualifications:* applicants should have an undergraduate degree with an accounting major. Third and fourth year RIA/CGA candidates also will be considered. Hotel or apartment block or food service experience highly desirable. *Salary:* \$11,551 to \$14,271. *Applications:* interested applicants should submit a comprehensive resume to D. Young, Housing and Food Services, Lister Hall. 432-4281.

NON-ACADEMIC STAFF

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, third floor, SUB, telephone 432-5201. Please do not contact the department directly.

Clerk Typist I (\$467-\$576)—Mathematics
Clerk Typist II (\$505-\$627)—Extension (2 positions)

Clerk Typist II (\$505-\$627)—Music; English; Faculty of Graduate Studies and Research; Office of the President; Bookstore

Clerk Typist III (\$576-\$713)—Political Science; Educational Psychology

Clerk Steno II (\$527-\$853)—Mechanical Engineering; Extension

Clerk Steno III (\$599-\$744)—Biochemistry
Secretary (\$683-\$853)—Theoretical Physics Institute
Secretary (term) (\$527-\$853)—Division of Field Experiences

Accounts Clerk I (\$527-\$683)—Housing and Food Services

Accounts Clerk III (\$814-\$1,020)—Bookstore

Duplicating Operator I (\$505-\$627)—Extension

Student Record Processing Clerk (\$627-\$779)—Faculty of Arts; Faculty of Education

Data Entry Operator II (\$653-\$814)—Agricultural Economics and Rural Sociology

Typographical Trainee (\$505-\$627)—Duplicating

Typographical Tradesman I (\$653-\$814)—Duplicating

Technologist I (\$814-\$1,020)—Cancer Research Unit

Technician I (\$713-\$891)—Pharmacy; Geology

Biochemical Technician (½ time) (\$4.50-\$5.50/hr.)—Oral Biology

Analyst (\$1,171-\$1,474)—Office of Administrative Systems

Technician II (\$814-\$1,020)—Computing Services

Assistant to the Associate Registrar (\$1,118-\$1,406)—Office of the Registrar

Storeman I (4/5 time) (\$461-\$576)—Art and Design

Electronics Technician III (\$975-\$1,225)—Physics

Technician III (\$932-\$1,171)—Mineral Engineering

Stockman I (\$576-\$713)—Bookstore

The following is a list of currently available positions in the University Library. The bulletin board postings in the Library Personnel Office, 516 Cameron Library, should be consulted for further information as to position requirements and availability.

Library Assistant I (\$627-\$779)—Cataloguing

Introductory Special

See our fine selection of Central and South American bromeliads all reduced 10%

Beautiful blooming *Aechmea Fasciata*s regularly \$26 reduced to \$17



The Plant Cupboard

Fine Plants and Accessories
Open Thursday Evenings
Delivery Service Available
HUB Mall 8911 112 Street
Phone 433-4342

Alberta Ballet Company

presents

"P II"

SUB Theatre December 17-20
Evenings and Matinees

Drs. LeDrew, Rowand, Jones,
Rooney, Bain and Associates

Optometrists' Clinic

Campus Branch, HUB Mall
8922 112 Street, 439-5878

PERSONAL NOTICES

All advertisements must be received by 9 a.m. the Friday prior to publication. Rate is 15 cents per word for the first week, and 5 cents per word for subsequent weeks ordered before the next deadline. Minimum charge is \$1. Ads must be paid in advance. We regret that no ads can be taken over the telephone. For order forms or further information, telephone 432-4991.

Accommodation available

Thinking of selling your home? Today's real estate market fluctuates. Make sure you receive top value. Call a professional. Call Ross Lizotte, Buxton Real Estate Ltd., 436-1140, 426-5880, extension 990.

Saskatchewan River view. 3½ acres, four bedrooms, living and family room, round fireplace; broadloom throughout; patio, attached garage and terrace. Immediate possession. 11 miles from Whitemud Freeway. \$95,000. 487-9156.

For sale—Grandview Heights. Interesting, different; four bedrooms, rumpus room, one and two half baths, fireplace; double garage. View it and love it. Phone Ian Nicholson, 429-4291, extension 807.

For rent—Furnished four-bedroom house near University; suitable for family or grad students. Available January to August 1976. 439-3766 after 5 p.m.

For rent—From mid-December 1975 to mid-July 1976, fully furnished home in Lendrum. Three bedrooms, one full and two half baths, family room, garage, usual appliances and cable TV. 434-3752.

For rent—January 1, 1976 for one year, furnished executive home, Windsor Park; three bedrooms, den, two baths, two fireplaces. One block to University. Double garage, front driveway. 433-1593.

For rent—January 1 to September 1, 1976, three-bedroom furnished house in Lendrum. 434-1836.

For rent—one-bedroom apartment on University Avenue. Brand new. \$150 plus utilities 434-6270 evenings.

Home privileges for female graduate student. 452-8254.

By owner—Nice home on quiet crescent in Belgravia, 1460 sq. ft. plus fully-developed basement (new) and other desirable extras. \$75,000. Tarver, 432-1476, 436-4363.

Near University, one-bedroom furnished basement suite; laundry facilities, stove, fridge. Occupancy January 1, 1976. Please telephone 433-1204.

University area—two-bedroom bungalow. Stove, fridge, washer, dryer. Occupancy January 1, 1976. Please telephone 433-1204.

Automobiles and accessories

For sale—1975 Volkswagen camper. Only 7,500 miles. 435-5760 evenings.

Garage for rent. Block from campus. 433-7664.

For sale—Dart 1967 two-door 6-cylinder. 434-1680.

Goods and services

Will type theses, manuscripts, etc. Experienced typist. Phone 459-5276.

For sale—Surplus materials, aircraft and electronics. Most brand new. Chad Supplies, Hangar 13A, Municipal Airport. Unusual opening hours; phone 454-2171 before coming.

HUB Beauty Salon—telephone 433-0240. Winner of award. \$40 perms now \$25. HUB mall.

Interesting low-cost tours for university scholars. Also round-trip excursions: geographers, historians and men and women with interest in world religions. Kabul, Afghanistan, New Delhi. \$700 and up (cost of living less than \$5 a day). 429-1079 Indus Tours.

Peking, Shanghai food. Delicious, inexpensive. Simple surroundings. Shanghai House, 6525 111 Street. 435-7622.

Plumbing—For free estimates on basement bathrooms, repairs, gasfitting, etc. call 465-7079.

Custom dressmaking and designing. Call Jacqueline 433-4870.

Typing, fast, accurate service. Phone Georgina Campbell, 489-4810 evenings.

Typing: theses, dissertations, books. Will pick up and deliver to campus. 467-6201.

Services available—Research and documentation, proof-reading, editing, re-writing, photodocumenting, for all kinds of technical and research papers. Field and literature research and photographic documenting; library of photos; biological, some historic, ethnologic subjects, etc. For information telephone: Dr. Jim R. Salt, 439-0964.

Wanted—parents interested in quality daycare. McKernan Park Day Care, 11125 76 Avenue. Ages 3-5. 436-1823, 466-1508.

Illustrations, charts, graphs, prepared for publication and instruction. Prices negotiable. R. Pape, 483-1252, 8 a.m. to 1 p.m.

Sam Lee Laundry. Craft and art gallery. Buys and sells all types of crafts. 8037 102 Street (just east of the railway station in old Strathcona). 439-0692, afternoons and Saturdays.

Golfers, tennis buffs, marlin fisherfolk, sun-lovers—Hexacons of Hawaii offers new condominium vacation home plan for under \$15,000. Charles Sauer, Carman Realty, 429-1781, 433-6665.

For sale—Stroller, \$20. Wooden playpen, \$15. Nursery drapes, \$20. ski boots: 9½ Tyrol, \$20; 10½ Munari, \$25. Goalie mask, \$10. 482-5179.

For sale—numbered, signed, framed lithograph: *The Tribe of Benjamin* by Marc Chagall and framed reproduction of Picasso ink sketch. Phone 434-9182, 6-10 evenings.

Low Fares to the Orient. Departing from Edmonton, Vancouver or Seattle to Tokyo, Taipei, Hong Kong and Bangkok daily. Stopovers in San Francisco and Honolulu permissible. Contact Eric Choi, 425-0554.

For sale—One pair Head skis, 190 centimetres. 488-2515 after 6.

Ballroom dance lessons. Children 6-12; teens 13-17. Private lessons available. Dance Society of Alberta. 424-6532.

Ballroom Dancing 9-2 every Saturday night. Downstairs at The Embers. 10052-106 St. 424-6532.

For sale—Black Persian lamb coat. Smart style. Good condition. Size 12-16. \$350. 433-2336.

Electrohome humidifier. Drum filter. Automatic humidistat. Call 435-6889 evenings or weekends.



**Realscope
Realty Ltd.**

*In the heart of the
University Community*

11204 76 Avenue

436-6780



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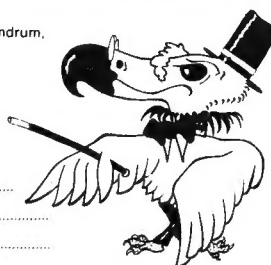
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